L 17612-65 EPA(s)-2/ENT(s)/EPF(c)/ENG(v)/EPR/EPA(w)-2/T/ENP(j) Po-d/Fe-5/Po-4/Pab-10/Ps-4/Pt-10 BSD/ASD(m)-3 WM/MIK/RM

ACCESSION NR AMLOLI6718

BOOK EXPLOITATION

s/

Tkhorzhevskiy, V. P.; Perevezentsev, I. C.

Construction of instruments for countries with tropical climates (Konstruirovaniye priborov dlya stran s tropicheskim klimatom), 2d ed., rev. and enl., Moscow, Izd-vo "Mashinostroyeniye", 1964, 199 p. illus., biblio., tables. 3,100 copies printed.

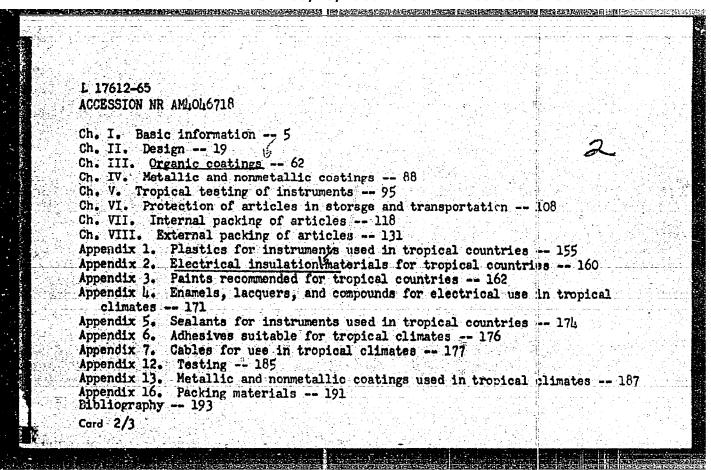
TOPIC TAGS: tropical deterioration, metal corrosion, organic coating, packing material, metallic coating, nonmetallic coating, electric insulation

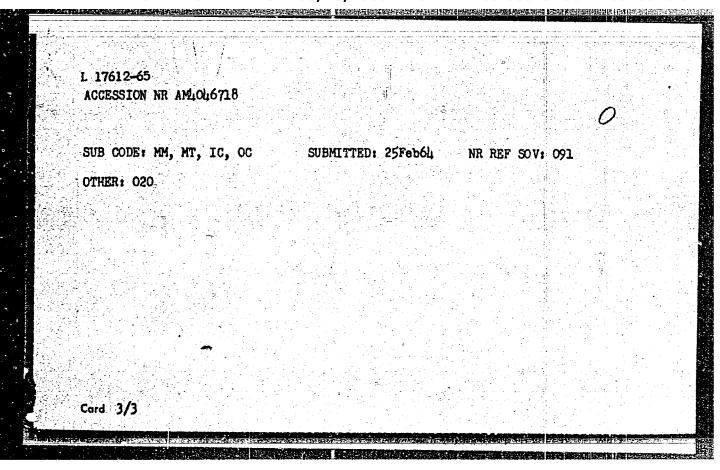
PIPPOSE AND COVERAGE: The book reports on the design of new and the redesign of old instruments for countries with tropical climates. The basic design rules of instruments, the selection of materials, storage and packing are considered. The norms and methods of tropical climate testing are examined. The book is intended for technical workers of plants and design bureaus as a manual.

TABLE OF CONTENTS [abridged]:

Foreword to the second edition -- 3

Card 1/3





#### CIA-RDP86-00513R001240020016-5 "APPROVED FOR RELEASE: 06/15/2000

28577 3/187/61/000/010/002/007 DO53/D113

6.6000 (mal 1159)

AUTHOR:

Perevezentsev, L.T.

TITLE:

Trial operation of the experimental LEIS color television

station

PERIODICAL:

Tekhnika kino i televideniya, no. 10, 1961, 35-37

TEXT: The author describes performance characteristics of the equipment installed at the LEIS experimental color television station which underwent trial operation from April 1960 till July 1961 in Leningrad. The station was established and operated by the Leningradskiy elektrotekhnicheskiy institut svyazi imeni K.A. Bonch-Bruyevicha (Leningrad Electrotechnical Institute of Communications im. M.A. Bonch-Bruyevich) with the help of some enterprises in Leningrad. The station used a compatible TV system with a quadrature modulation of the subcarrier frequency. The chrominance information was transmitted by two color-difference signals,  $E_{R-Y}$  and  $E_{B-Y}$ , which

were quadrature-modulated by the subcarrier frequency located in the frequency spectrum of the luminance signal ( $\mathbb{E}_{\mathbf{Y}}$ ). The luminance and color-

difference signals were determined by the formulas: Card 1/4

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240020016-5"

X

28577 S/187/61/000/010/002/007

Trial operation...

$$E_{Y} = 0.299E_{R} + 0.587E_{G} + 0.114E_{B};$$

$$E_{R-Y} = 0.701E_{R} - 0.587E_{G} - 0.114E_{B}$$
;

$$E_{B-Y} = -0.299E_{R} - 0.587E_{G} + 0.886E_{B};$$

where  $E_R$ ,  $E_G$  and  $E_B$  are the corresponding red, green and blue video signals. The shape of the composite color signal corresponded to the  $\lceil OC \rceil 7845-55 \rceil$  (GOST 7845-55) black-and-white TV standard, except that the color synchronization and chrominance signals were added to the luminance-signal spectrum. The color-synchronization signal contained 10 cycles of the subcarrier frequency. The parameters of the composite signal were: (1) frequency of the color subcarrier -  $f_B$  = 4429687  $^{\pm}$  30 cps; (2) bandwidth of the luminance signal -  $\Delta f_Y$  = 6.2 Mc at 6-db level; (3) bandwidth of the color-difference signals -  $\Delta f_{R-Y}$  and  $\Delta f_{B-Y}$  = 1.5 Mc at 6-db level; and

Card 2/4

VX

Trial operation...

28577 8/187/61/000/010/002/007 D053/D113

X

(4) frequency separation between sound and image carriers - 6.5 Mc. The transmitter output power was 75 w. Programs were transmitted once weekly for 1 to 1.5 hours in the 8th TV channel (Soviet standard). Besides the TV broadcasts, the station regularly transmitted test patterns, using for that purpose color-bar, wedge, checkerboard and grid generators, and a monoscopic unit with the 0249 test pattern. The TV programs were received using "Raduga" and "Temp-22" color receivers, and with black-and-white receivers operating in the 8th TV channel. The transmission range was found to be 8-10 km for color reception with antennas tuned to the 8th TV channel. The black-and-white reception range was up to 30-40 km with special antennas. In May 1961, a trial color TV broadcast was put on the air by a high-power transmitter of the Leningradskiy teletsentr (Leningrad Telecast Station) operating in the 1st TV channel. The pictures were received using several color TV receivers in the Institut svyazi (Institute of Communications) and in the zavod imeni Kozitskogo (Plant im. Kozitskiy). The results showed that color TV programs can be broadcast by standard black-and-white transmitters. An analysis of the results gathered during the trial operation of the station showed that a simultaneous compatible color TV system with the

Card 3/4

AKSENTOV, Yu.V.; GOL'DIN, A.A.; DZHAKONIYA, V.Ye.; DUSHKEVICH, N.I.; YERGANZHIYEV, N.A.; YEFIMKIN, V.I.; LIPAY, I.N.; MINENKO, Yu.G.; ODNOL'KO, V.V.; PEREVEZENTSEV, L.T.; TARANETS, D.A.; SHMAKOV, P.V., prof.; KUKOLEVA, T.V., red.; BELYAYEVA, V.V., tekhn. red.

[Theory and practice of color television]Teoriia i praktika tsvetnogo televideniia. Moskva, Sovetskoe radio, 1962. 661 p. (MIRA 16:1)

(Color television)

PEREVEZENTSEV, L. T. Cond Tech Sci -- "Analysis of the method of resolution 5: a scanning beam." Len, 1960 (Min of Higher and Secondary Specialized Education RSFSR. Len Inst of Aircraft Instrument Building). (KL, 1-61, 195)

-226-

#### CIA-RDP86-00513R001240020016-5 "APPROVED FOR RELEASE: 06/15/2000

S/194/61/000/008/044/092 D201/0304

9,4130

AUTHOR:

Perevezentscv, L.T.

TITLE:

Distribution of current fluctuation probabilities

in secondary-electron multipliers

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 25, abstract 8 G198 (Tr. Nauchno-tekhn. konferentsii Leningr. elektrotekhn. in-ta svyazi,

no. 3, L., 1960, 45-56)

The theoretical analysis has been carried out of noise characteristics photo-electron multipliers. The probability density has been calculated of the appearance of random values of the photo-current due to the increase of it by secondary electron emission. By means of numerical integration, values have been obtained for the most characteristic variants of the relationships between photo-currents, the secondary emission coefficients and their dispersion. A formula has been obtained for evaluating the S/N

Card 1/2

CIA-RDP86-00513R001240020016-5" APPROVED FOR RELEASE: 06/15/2000

S/194/61/000/008/044/092 D201/D304

Distribution of current...

ratio of single-stage photo-electron multipliers. The formula obtained may be, with some modification, applied to multi-stage photo-electron multipliers, but it differs from that obtained earlier by other authors. 

Abstracter's note: Complete translation 7

6

Card 2/2

### "APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240020016-5

REPORT OF THE PROPERTY OF THE

\$/058/61/000/006/048/063 A001/A101

9,4130

AUTHOR: Prevezentsev, L T.

TITLE:

Distribution of probabilities of current fluotuations in secondary-

electron multiplians

PERIODICAL:

Referativnyy zhurnal Fizika, nc. 6, 1961, 351, abstract 6Zh197 ("Ir. Nauchno-tekhn konferenteli Leningr, elektrotekhn in-ta svyazi".

no. 3, Leningrad, 1960, 45 - 56)

TEXT: The distribution of probabilities of multiplier anode current fluctuations was theoretically and experimentally investigated. It is shown that the differential distribution law for probabilities of fluctuations of multiplier and de current differs from the normal one. The author derives formulae for determining the root-mean-square noise value and signal-to-noise ratio at the output of photoelectronic multipliers.

[Abstracter's note: Complete translation]

Card 1/1

6.6000

S/112/59/000/012/089/097 A052/A001

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 12, p. 258, # 25731

AUTHOR :

Perevezentsev, L.T.

TITLE:

On the Problem of Selection of Raster Dimensions for Scanning Beam

Transmitter &

PERIODICAL:

Sb. tr. Leningr elektrotekhn in-ta svyazi 1957, No 2 (32), pp.

49-55

TEXT: A derivation of the signal-to-noise ratio is given depending on dimensions of the scanner tube raster in a scanning beam transmitter at a constant aperture and brightness of scanning. A formula for the light flux per element of image is derived. The dependence of the function, which characterizes the signal-to-noise ratio and corresponds to this light flux, on raster dimensions is presented graphically. The dependence of the depth of sharpness of the transmitted scene on the dimension of the tube raster is determined, and this dependence is

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Card 1/2

### "APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240020016-5 THE PROPERTY OF THE PROPERTY O

8/112/59/000/012/089/097

On the Problem of Selection of Raster Dimensions for Scanning Beam Transmitter

plotted against the sizes of transmitted objects When studio scenes are transmitted, an increase of raster dimensions leads to a considerable improvement of

Translator's note: This is the full translation of the original Russian abstract

Card 2/2

PEREVENTSEV, L.T.

Transient amplitude-frequency and phase-frequency characteristics of television cameras with a traveling beam.

Blektrosviaz' 14 no.3:17-25 Mr '60. (MIRA 13:6)

(Television camera)

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PERDVEZENTÖEV, M.I.				i
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Autumn seedings. Les	i ste; ' l., no. 7, 135	<b>2.</b>		
			n . 5304 / 2012	
9. Monthly List of F	Russian Accessions, I	library of Congress, _	D., Miller, 19/2	Uncl.

是大学的现在分词有,**时间对外,还是是关系的,在**是这种是大学的主要的,我们就是一个人,但是这种人的,但是是一个人,这个人,

OSTROVSKIY, I.I., inzh., red.; PEREVEZENTSEV, N.T., inah., red.; SHMELEVA, V.F., inzh., red.; KAYSH'YAN, A.G. inzh., red.

[Collection No.4 of standard district uniform estimates for construction work; strip mining] Sbornik No.4 edinykh raionnykh edinichnykh rastsenok na stroitel'nye raboty; gornovskryshnye raboty. Moskva, Stroitzdat, 1965. 174 p.

(MIRA 18:8)

1. Russia (1923- U.S.S.R.) Gosudarstvennyv komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Ostrovski). 3. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva Gosstroya SSSR (for Perevezentsev, Shmeleva). 4. Gosudarstvennyy institut po proyektirovaniyu shakht, kar'yerov i obogatitel'nykh fabrik (for Kamysh'yan).

BUDANOV, G.V., inzh., red.; GUSEV, V.I., inzh., red.; NI, V.N., inzh., red.; MALYAKOVSKIY, V.T., inzh., red.; GRIGOROV, I.I., inzh., red.; PEKEVEZENTSEV, N.T., inzh., red. TURIANSKIY, M.A., spets. red.

[Construction specifications and regulations] Stroitel-nye normy i pravila. Moskva, Stroitzdat. Pt.4. Vol.2. No.1. Ch.10. 1965. 95 p. (NIRA 18:7)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Budanov, Gusev, Malyakovskiy). 3. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva Gosstroya SSSR (for Ni, Perevezentsev, Grigorov).

DRUYAN, M.A.; PEREVEZENTSEV, T.G.; SOSNITSKIY, A.Ye.; PERS, L.Ye.;
PANFILOV, I.V.

Making 30Gl, 5L steel with addition of ferromanganese in the ladle. Lit.proizv. no.7:8 J1 '62. (MIRA 16:2)

(Steel-Metallurgy) (Ferromanganese)

BALASHOV, M.I.; BEKERMAN, F.A.; PEREVEZENTSEV, T.G.; Prinimali uchastiye:
SMIRNOVA, L.G., rabotnik; 7HIGAIENKOVA, R.S., rabotnik;
DUBOVA, L.S., rabotnik

Prevention of waterleaks in iron castings. Lit. proizv. no.1:
40 Ja '65. (MIRA 18:3)

1. TSentral'naya zavodskaya laboratoriya (for Smirnova, Dubova, Zhigalenkova).

L 53943-65 ENT(m)/EPF(c)/EPF(n)-2/ENG(m)/EPR/ENA(h) Pr-4/Ps-1/Par-4 UR/3119/64/000/002/0051/0064 ACCESSION NR: AT5013238 AUTHOR: Pravdyuk, N. F.; Ivanov, V. P.; Kuznetsov, V. N.; Vikhrov, V. Perevezentsev, V. N. TITLE: Measurement of fast neutron flows using threshold reactions during experiments on irradiation of materials in the RFT reactor SOURCE: AN LatSSR. Institut fiziki. Radiatsionnaya fizika, no. 2, 1964. Dozimetriya neytronov i gamma-luchey (Dosimetry of neutrons and gamma rays), 51-64 TOPIC TAGS: fast neutron flux, threshold reaction, neutron registration, neutron flux measurement, reactor neutron flux, radiation dosimetry ABSTRACT: The authors studied the problem of absolute measurements of integral fluxes of fast neutrons using the threshold reactions  $U^{238}(n, f)$ ;  $P^{31}(n, p) Si^{31}$ ;  $S^{32}(n, p) P^{32}$ ; Ni<sup>58</sup>(n, p) Co<sup>58</sup>; Cl<sup>35</sup> $(n, \alpha)$  P<sup>32</sup>; Al<sup>27</sup> $(n, \alpha)$  Na<sup>24</sup> in the channels of the RFT reactor. The absolute isotope activity was measured by means of a  $4\pi$  flow-through type counter, a  $4\pi$  slit scintillation counter, the  $\beta$ coincidence method, Y-spectrometers, and by calibrated proportional and crystal

L 53943-65 ACCESSION NR: AT5013238

ALMANA MANUSCRIPTA DE LA PROPERTA DEL PROPERTA DE LA PROPERTA DEL PROPERTA DE LA PROPERTA DEL PROPERTA DEL PROPERTA DE LA PROPERTA DE LA PROPERTA DEL PROPERT

counters with layers of fissionable material. The distribution of fast and thermal neutrons within the active zone was determined according to the relative method by means of fission counters and sulfur and copper activation. The article outlines the theory of the experiments, describes the experimental method, and reports the results of the measurements. The methods used for the flux determin nation during the present investigation are quite complex and numbersome and the success of any such measurement hinges to a great extent on the knowledge of the shape of the spectrum at various points within the reactor. Consequently, the authors suggest that the theoretically calculated spectra be used whenever possible. If the neutron spectrum for a point in the reactor is calculated reasonably accurately, a single threshold indicator is sufficient for its empirical normalization. If the accuracy of the calculation is in doubt, it can be checked and corrected by means of a series of threshold indicators (see, R. Nibson, Neutron dose monitoring for irradiation of materials in reactors. Contributions to the Harwell Symposium in December 1962, No SM 36/42; J. Moteff, Nucleonics, 20, 1962, 12, 56). "In conclusion, the authors thank Yu. C. Nikolayev and his co-workers for calculating the neutron spectra and for practical help in carrying out the experiments." Orig. art. has: 9 formulas, 5 figures, and 3 tables.

Card 2/3

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ASSOCIATION: of Lenin Insti	Ordena Lenina Ins tute of Atomic Er	stitut atomnoy en nergy)	tergil im. I	, v. Kuttimitova	1 COTGET
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ETI IJP(c) JD/EM/GD SOURCE CODE: UR/0000/66/000/000/0179/0187 EWT(d)/EWT(m)/EWP(w)/EWP(t)/ETI ACC NR: AT6026919 68 Pokrovskiy, Yu. I.; Vikhrov, V. I.; Perevezentsev, V. N. AUTHOR: ORG: None TITLE: Unit for remote measurement of internal friction and modulus of elasticity of radioactive materials SOURCE: AN SSSR. Institut metallurgii. Vnutrenneye treniye v metallakh i splavakh (Internal friction/in metals and alloys). Moscow, Izd-vo Nauka, 1966, 179-187 TOPIC TAGS: internal friction, elastic modulus, shear modulus, electronic measurement, laboratory instrument, mechanical motion instrument, fatigue test, relaxation process, material deformation, radioactivity ABSTRACT: A unit for remote measurement of internal friction and modulus of elasticity is described. This unit received author certificate application no. 823088/ 26-25, 5 Mar 63. The unit can measure the internal friction of materials from  $5 \times 10^{-2}$  down to  $5 \times 10^{-5}$  in the range of 60-600 cycles for bending and torsion vibrations under conditions of low (-196°C) room and elevated temperatures (up to 700°C). Modulus of elasticity and shear modulus can be measured on this unit and fatigue testing can be carried out. Both vibration damping and resonance methods can be used. A simplified projection of voltages at various points in the circuit, and a principal schematic diagram of the unit are included, together with a brief Cord 1/2

ACC NR: AT6026919		0
ments of internal friction check unit operation as well Thermal elastic internal framework Relaxation phenomenon was a specific time. Orig. art.	ns of some of the electronic composed of the ele	effect, were used to of internal friction. fluxes in the sample. ermal equilibrium at a
SUB CODE: SUBM DATE	: 02 Apr 66/ORIG REF: 007/OTH REF	: 002
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ACC NR AT6026912 (A) SOURCE CODE: UR/0000/66/	/000/000/0076/008≥ 53 55
AUTHOR: Pokrovskiy, Yu. I.; Vikhrov, V. I.; Porevezontsev, V. K.	55
ORG: None	<b>S</b>
TITLE: Study of some radiation defects in metals by measuring inte	ornal friction
SOURCE: AN SSSR. Institut metallurgii. Vnutrenneye treniye v metal (Internal friction in metals and alloys). Moscow, Izd-vo Nauka, 19	
TOPIC TAGS: metal analysis, internal friction, clastic modulus, reirradiation, nuclear whicher war / RFT maches care, IRT-1000 marks in the operating channel of an RFT reactor core at a flux of 10 <sup>-10</sup> in the channel outside an IRT-1000 reactor core at a flux of 10 <sup>-10</sup> in the channel outside an IRT-1000 reactor core at a flux of 10 <sup>-10</sup> ternal friction (Q-1) was measured between stresses of 1-1,000 G/m stress amplitude (G) calculated according to the amplitude of vibr of modulus of clasticity (E), associated with change of Q-1 to G, respect to change of natural frequency vibrations squared (f <sub>0</sub> <sup>2</sup> ) of to G. For copper, Grit rose 100 times after irradiation at 10 <sup>20</sup> n Q-1 decreased by about 40% with respect to its pre-irradiation val	ndiation damage,  n were irradiated neutron/cm² and neutron/cm². In- m² with maximum rationa; change was studied with cample in relation neutron/cm² and
Card 1/2	-

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and ocrit are explained by reaction of dislocations with spot defects at low neutron dosages, and reaction of dislocations with more complex defects (such as vacancy complexes) at high neutron dosages. This behavior differs from that of Mo and W in that  $Q_{min}^{-1}$  for Cu at a flux of  $10^{20}$  neutron/cm<sup>2</sup> decreases while  $Q^{-1}$  for both Mo and W increases because these two metals have "free" (unattached to dislocations) spot defects which are absent in Cu. The increase of crit for No and W may signify that dislocations, such as in Cu, are locked in place by radiation defects. A small increase in o for these metals is associated with the fact that many of the defects formed remain in the lattice because of low mobility of radiation defects in these metals'in comparison with the same mobility in copper. Examination of change of modulus of elasticity for the metals under scrutiny showed that neutron irradiation may cause an increase or decrease in elastic modulus (E) for copper in relation to the magnitude of the integrated flux. This E for copper increases with small doses and decreases for large doses. Explanations for changes in modulus of elasticity are quite similar to those for changes in internal friction. Low temperatures, and other forms of radiation (gamma-rays, electrons), can be used to study spot defects by the internal friction method. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 11, 18/SUBM DATE: 02 Apr 66/ORIG REF: 003/OTH REF: 002

nuclear motallurgy

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240020016-5"

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UTHOR: Pravdyuk, N. F.; Vikhrov, V.	1.; Pavlov, S. Yu.; Porgverentsev, V. H.
DRG: none	, and the second of the second
FITLE: Determination of the burnup of from the Cs-137 activity without chemi	the fuel element of the icebreaker "Lenin" cal separation
council Atomnava chergiya, v. 21, no.	2, 1966, 92-96
TOPIC TAGGET count of the comment, comment, comment	nium, uranium compound, enriched uranium, reacoos
in the reaction products with a scint The fuel element tested was made of u 428 effective days, and stored for 57 cut in the hot chamber in 11 places a from each cut. The activity was mean designed pickup (Fig. 1) and the date	ensity of the 0.66-Mev gamma lines of the Cs 137 illation. Y spectrometer with resolution 1012%. ranium dioxide with 5.5% enrichment, operated for 5 days after removal from the reactor. It was not two samples of the uranium dioxide were chosen are with a scintillation counter in a specially were processed with a pulse-height analyzer ormation extraction system (VD) developed at the Kurchatov by M. P. Sokolov. The calibration of
Card 1/2	UDC: 621.039.548

L 10330-07 ACC NR: AP6029795

Fig. 1. Diagram of gamma-spectrometer pickup. 1
-- Lead shield, 2 - Jacket, 3 - light pipe, 4 collimator, 5 - copper tube, 6 - target, 7 - NaI(T1)
crystal, 8 - photomultiplier, 9 - cathode follower,
10 - support

the apparatus and the processing of the results are described, and the integral flux of the thermal neutrons and the burnup rate are calculated. It is concluded that the method can be used to determine the relative distribution of the burnup, after suitable cooling of the fuel element with accuracy \*6% and the absolute burn-up value with accuracy \*16%. The authors thank N. M. Mordvinov for a discussion of the results, and A. A. Markov and M. P. Sokolov for practical aid in preparing the system for information extraction. Orig. art. has: 4 figures, 11 formulas, and 2 tables

SUB CODE: 18/ SUBM DATE: Olfeb66/ ORIG REF: 006/ OTH REF: 001

Cord 2/2 BP

PEREVEZENSEV, V. V., Maj. Vet. Gorps; F. S. KIRILLOV, Sr. Lt., Vet. Corps

"Effect of Intravenous Infusions of White Streptocide (III), on the Blood of a Horse"

Above is a Section(in Table of Contents((p. 253))in Chap. V - Tests and Practice, of "Bolezni Loshadey - Sbornik Rabot" ("Equine Diseases - Collection of Works"), Ogiz-Sel-khozgiz, 1947, compiled by A. Yu. Branzburg and A. Ya. Shapiro, and edited by A. K. Laktionova, State Press for Agricultural Literature. Works in a majority of cases had been published previously in the journal Veterinariya or in one of the manuals issued by the Veter nary Administration of the Armed Forces.

ACC NR: AR6014866 (N) SOURCE CODE: UR/0372/65/000/011/G $\infty$ 3/G $\infty$ 3

AUTHOR: Porevezentsev, Ye. I.

TITLE: A self-adjusting system of automatic marine navigation with search for a given dynamic characteristic

SOURCE: Ref. zh. Kibernetika, Abs. 11G16

REF SOURCE: Tr. Tsentr. n.-i. in-ta morsk. flota, vyp. 59, 1964, 71-79

TOPIC TAGS: navigation system, ship navigation, automatic navigator, self adaptive control, game theory

ABSTRACT: The design principle of a <u>self-adjusting system</u> of automatic marine navigation is described with a model. The method of putting the system of automatic marine navigation into a stable equilibrium position is examined initially. The problem is formulated and solved by methods of game theory. 4 illustrations. Bibliography of 4 citations. B. A. Translation of abstract

SUB CODE: 17

Card 1/1////

UDC: 62-506.1:681.142.36

, 43651-66 EWT(d)/EMP(v)/EMP(k)/EMP(h)/EMP(1) BC  ACC NR. AT6014881 (M) SOURCE CODE: UR/2752/65/000/077/0074/0081	!
ACC NR: AT6014881 (N) SOURCE CODE: UR/2752/65/000/07/70074/0081	
AUTHOR: Denisov, K. N. (Candidate of technical sciences); Perevezantsev, Ye. N. (Candidate of technical sciences)	
Hate of terminal partices,	ļ
ORG: none	
FITLE: A variation in the structural synthesis of a perceptron-type recognition device for an automated system to control fleet operations  SOURCE: Leningrad. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota. Irudy, no. 77, 1965. Avtomatizatsiya i vychislitel'naya tekhnika na morskom flote (Automation and computer engineering in the Merchant Marine), 74-81  TOPIC TAGS: perceptron, adaptive pattern recognition, naval force-organization flot operation, automaton.  ABSTRACT: The functional properties of a perceptron-type learning automaton which has two and three valued thresholds and associative elements with distributed parameters for use in the recognition of flat black-and-white images in printed texts are discussed. The authors consider a perceptron-like net of sensitive, associative, and reactive elements forming a variable transitional matrix of coefficients of amplifica-	:
tion, which depends upon a set of past active states of the net (particularly upon a set of objects presented to the perception during the learning period). They show that	<u> </u>
UDC: 656.61-52	i
Card 1/2	

L 43651-66

ACC NR: AT6014881

a two or three-threshold perceptron is capable of generalization (i. e., interpolation and extrapolation) and self-organization (in the sense of learning), and is therefore a detailed enough model for studying the process of automatic pattern recognition with forced learning, given a sufficient number of elements in the logical net. The authors also discuss the problem of the efficient operational control of fleet movements from the viewpoint of automatic pattern recognition with self-organization and learning. The problem of directing ships approaching an operational area to particular ports would be solved by the automatic selection of a particular "picture", or configuration, that reflects total minimum cost on the basis of memory and program constantly modified and updated through past experiences. Orig. art. has: 4 figures.

SUB CODE: 09/5/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 001

15

Card 2/2

AUTHOR: Denisov, K. N. (Candida didate of technical sciences)	ite of technical sciences); Perevezentsev, Ye. N. (Can-
ORG: hone	5 ! 6+1
TITLE: The problem of synthesiz	ing a discrete perceptron
Trudy, no. 77, 1965. Avtomatizat	nauchno-issledovatel'skiy institut morskogo flota. siya i vychislitel'naya tekhnika na morskom flote ring in the Merchant Marine), 82-88
TOPIC TAGS: computer control syser, linear programming, decision	stem, perceptron, pattern recognition, digital comput- theory, woding, computer except
The structural circuit utilizes a learning procedures. The recurrence sented by binary numbers) is base nonrecurrent procedure is based of	a solution to the problem of synthesizing the logical d on optimum coding and linear programming methods. simultaneously both recurrent and nonrecurrent forced ent procedure for learning to recognize objects (preed on the simplex method of linear programming. The on the Browning-Bledsoe method of binary digital recognized forms are extracted by computer procedures in

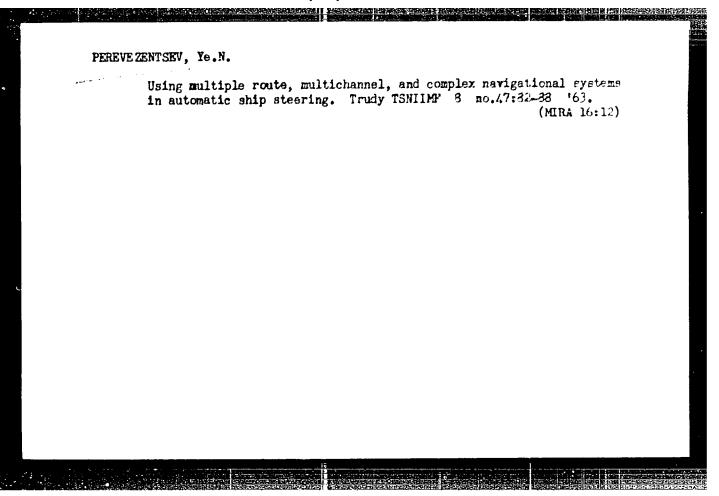
# L 1:3652-66

# ACC NR: AT6014882

general coding (in the sense of the Browning-Bledsoe method), leading to an investigation of the fine structure of the binary numbers by methods in the theory of optimum coding. The algorithms of optimum coding of binary numbers are based on a comparison of divergence and entropy of a series of possible states of the recognition device. Optimum selections of the weighted coefficients in the logical net are determined on the basis of algorithms of the simplex method using digital computers. The authors conclude that the further development of the theory of discrete (digital) perceptron depends on perfecting the recurrent and nonrecurrent learning procedures in pattern recognition devices which involves the use of more general computational methods of mathematical programming. Orig. art. has: 3 figures, 3 tables. OTH REF: 004

ORIG REF: 001/ SUBH DATE: none/ SUB CODE: 09,12/

**Cord 2/2** 



# PEREVEZENTSEV, Yo.N.

Optimal system of automatic navigation with full initial information equivalent to an adaptive control system. Trudy TSNIIMF = 55:28-32 164.

Conditions for the stability of a nonlinear system of automatic navigation. Ibid.:33-51 (MIRA 18:2)

L 02259-67 EWT(d)

ACC NR. AT6014773 (N) SOURCE CODE: UR/2752/63/000/051/0022/0032

AUTHOR: Perevezentsev, Ye. N.

ORG: none CHAPTER OF The problem of the representation of the basic problem of automatic navigation from the informational aspect

SOURCE: Leningrad. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota. Trudy, no. 51, 1963. Vychislitel'naya tekhnika i avtomatizatsiya na morskom flote (Computer technology and automation in the merchant marine). 22-32

TOPIC TAGS: ship navigation, automatic navigator, information theory, random process, navigation system

ABSTRACT: The paper deals essentially with a study of the information-related properties of a complex dynamic system for automatic ship control according to a prescribed program. These properties and concepts are approached through an analysis of the fundamental statistical and information characteristics of multidimensional random processes, which are an extension of the unidimensional random processes encountered in automatic control problems. On this basis, the author seeks to: 1) establish a relation between the correlation theory of random processes and the classical theory of discrete measurements with respect to the problems of

Card 2/2 pb

A STATE OF THE STA

ACC NR: AT6034956	(N)	SOURCE CODE:	UR/2752/66/000/073/0065/007
AUTHOR: Perevezentsev,	•		
ORG: None	attention of the second of the		
TITLE: The Doppler met	hod of navigat	tion using satelli	tes
			skiy institut morskogo flota. on and communication), 65-76
			ent, Doppler tracking, naviga
live orbit, navigation	equipment, nev	<u>rigation ayatem</u> , s	orientation, artificia: satel hip navigation, ORBIT
PARAMETEL, SPACE		re system	· ·
ABSTRACT: The orbital	parameters and	l possible spatial	positions of satellites in
rectangular and spheric	al coordinates	are defined. Fu	ndamental questions of using
rectangular and spheric satellites to determine Recommendations concern	al coordinates a ship's posi ing the compos	s are defined. Furtion at sea by the sition and structure.	ndamental questions of using e Doppler method are reviewed ral arrangement of the ship's
rectangular and spheric satellites to determine Recommendations concern navigational complex fo	al coordinates a ship's posi ling the compos or the receptio	s are defined. Furtion at sea by the sition and structuon and processing	ndamental questions of using e Poppler method are reviewed ral arrangement of the ship's of orbital information are
rectangular and spheric satellites to determine Recommendations concern navigational complex fo made. Orig. art. has:	al coordinates a ship's positing the composor the reception 7 figures, 21	s are defined. Furtion at sea by the sition and structured and processing of formulas, and l	ndamental questions of using e Poppler method are reviewed ral arrangement of the ship's of orbital information are table.
rectangular and spheric satellites to determine Recommendations concern navigational complex fo made. Orig. art. has:	al coordinates a ship's positing the composor the reception 7 figures, 21	s are defined. Furtion at sea by the sition and structured and processing of formulas, and l	ndamental questions of using e Poppler method are reviewed ral arrangement of the ship's of orbital information are table.
rectangular and spheric satellites to determine Recommendations concern navigational complex fo	al coordinates a ship's positing the composor the reception 7 figures, 21	s are defined. Furtion at sea by the sition and structured and processing of formulas, and l	ndamental questions of using e Poppler method are reviewed ral arrangement of the ship's of orbital information are table.

ABRAMOV, V.G., kand.med.nauk; PEREVEZERTSEVA, M.A., vrach

Surgical treatment of Marcus Gunn's syndrome. Oft. zhur. 16 no.4:
248-249 '61. (MIRA 14:7)

1. Iz kafedry glaznykh bolezney (zav. - prof. A.A.Bugayev) Omskogo meditsinskogo instituta.

(EYELIDS—DISEASES)

PEREVEZENTSEVA, M.M.: PLUNCIAN, L.V.; SEREBRYAKOVA, V.L.

Intensification of the processes of plasticization and mixing on

rollers. Kauch. i rez. 17 no.6:34-35 Je 158.

l.Moskovskiy zavod rezinovykh izdeliy sanitarii i gigiyeny.
(Rubber)

MIKHAYLOV, V.V.; FESCHANSKAYA, R.Ya.; FORER, Ye.R.; YEFREMOVA, V.K.;

PEREVEZENTSEVA, N.M.; ALEKSEYEVA, N.A.

New production variety of organic pigments for the rubber industry.

Khim.prom. no.1:26-28 4 '63. (MIRA 16:3)

(Pigments) (Dyes and dyeing-Rubber goods)

30.000 A 20.000 20.000 20.000 A 20.000 30V/138-58-6-10/25 AUTHORS: Perevezentseva, N.M., Plungian, L.V., perebryakova, V.L. TITLE: Intensitying Processes of Plasticisation and Mixing on Roll Mills (Intensifikatsiya protsessov plastikatsii i smesheniya na val'tsakh) PERIODICAL: Kauchuk i Rezina, 1958, Nr 6, pp 34 - 35 (USSR) ABSTRACT: The aim of the investigation was to intensify the plasticisation of natural rubber and colouring of mixtures whilst working on rollers (temperature of the roller = 50° - 60°C) by using non-toxic plasticiter. The first stage of the investigation consider in to sing. under laboratory conditions, substances resembled by NIIR, NIIShP and the Longhosov NITKhT. (1) A. W. cuidants: dimethylphenylparacrosol (DEFr.), agree tobenzimiazol (EB), tritert.-butylphenol (P-2), i-tribe butylhydroquinone (P-20). (2) Vulcanisation as well as is: tetramethylthiuramdisulphide (thiuram), percxide (12) propylbenzene hydroperoxide), chlorinated paraffin, formistearate, bis- (para-tert.-butylphenol) disulphide and Card 1/3 renatsit. II. The effect of these various substances was tested; however, negative results were obtained.

SOV/ 138-58-6-10/25

Intensifying Processes of Plasticisation and Mixing on Roll Mills

等。这个时间,但是是是这种是是是是是是是是是是是是是是是是是是一个,但是是是是是一个。但是是是是是,这个是是是是是是是是是是是是是是是是是是是是是是是是是是一个

Accelerated plasticisation (20 - 30%) was obtained with bis (para-tert.-butylohenol) disulphide. Results (at a temperature of 500 - 600C) are given in a Table. The effect of the temperature of processing on the plasticisation of natural rubber in the temperature limits of The plasticity (according 500 - 120°C was investigated. to Karrer) was decreased on increasing the temperature, but in all cases the plasticity of natural rubber containing the above named substances was higher than that A maximum degree of of untreated natural rubber. plasticisation of natural rubber was obtained when the rubber was first heated before being fed to the rollers (100°C) and when processing was carried out at 50°-55°C. This was verified on a rubber mixer in the Sverdlovsk Card 2/3 plant RTI (10 - 15%). When DMFPK was used, the plasticisation was accelerated by 20 - 30%. The time

SOV/138 -58-6-10/25

Intensifying Processes of Plasticisation and Mixing on Rell Mills

of plasticisation was shortened by 20% when using the substance with heated plasticised rubber, and by 11 - 14% when using it with heated unplasticised natural rubber,

**经产品的企业,但是在企业的对价的对价的,但是对应的实现,是不是不是,不是不是,但是是不是不是的的。但是是不是不是的的的。而是他们是对付的,不是不是不是不是不是的。** 

There is 1 Table.

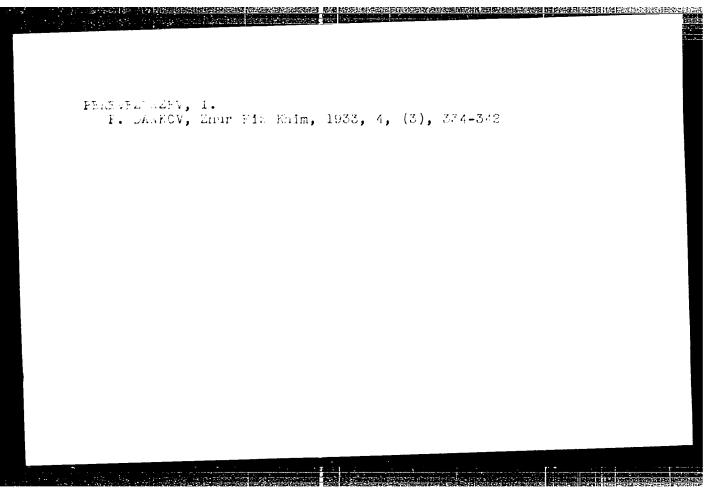
ASSOCIATION: Moskovskiy zavod rezinovykh izdeliy saritarii i gigiyeny (kousow Plant for Making Rubber Destriction Sanitation and Hygiene)

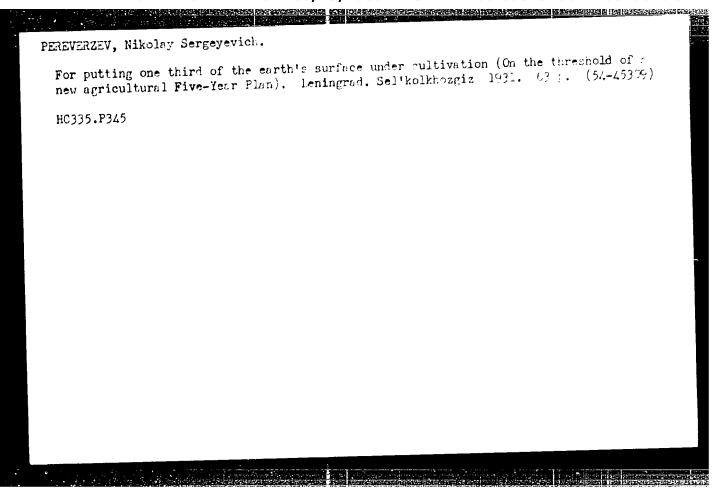
1. Pubber--Processing 2. Firstibity--Application 3. A miles makes --Application 4. Rubber--Test results

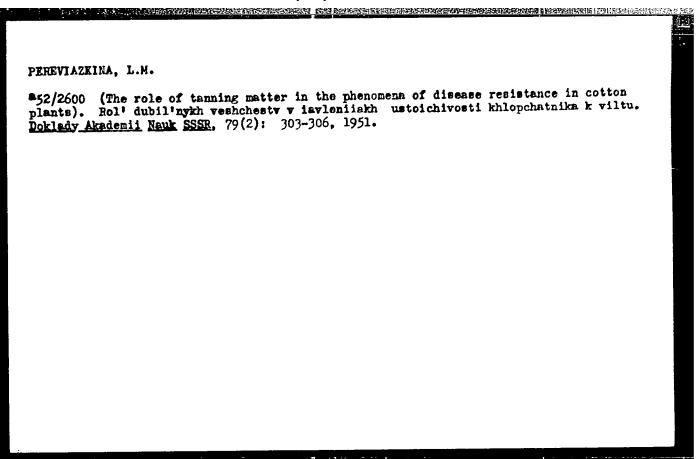
Card 3/3

PEREVEZENTSOV, L.D., PAVLOVA, V.I.

Brief report on the work of the province conference of dernatovenereologists of Leningrad Province, November 28-30, 1957. Vest.derm. i (NIRA 11:7) ven. 32 no.3:95 My-Je '58 (DERNATOLOGY)







TO THE RESIDENCE OF THE PROPERTY OF THE PROPER

PEREVIAZKINA, L. 1.

and RUBIN, B. A. "Role of Tannins in the Thenomena of Cotton Masistance to Wilt," <u>Doklady Akademii Nauk SSSR</u>, vol. 79, July 11, 1911, pp. 303-306. 511 PAAAA

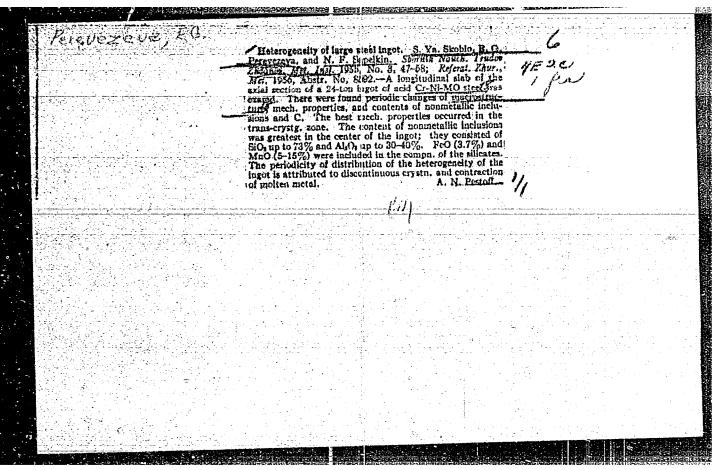
So: Sira S1-90-53, 15 Dec. 1953

PEREVIAZEO, S.I.

Coal Mines and Mining

The longwall system of working does not have to be the only one in the Donets Basin., trud.rab., 6, No. 1., 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1952 1966, Uncl.



Percycletive, T. ". o d Ter-Erbine v, E. ". - "A securative employing of the mannent of application of the mannent of the mannent of application of the mannent of the mann

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Perevoid hiller, I. M. - "S'in lineages a primariers in the Sigh Industry", Early Astrald. For med. in-ta, V.1. IX, 1000, s. 203-25.

So: M-300, 11 March 53, (Letteris 'Zhurnal 'my'th Stater, No. 3, 1000.
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TERRINGCUTIVY, I. N.

Porevodehiliny, J. N. - "Grin lineaged grand were in theeful indenter piece",
Truly Astralib. ros. red. in-ta, Vol. IX, 1000, r. 16-30.

So: U-3040, 11 March 63, (Leteris Eduraci Inpub Statey, No. 0, 1000).

Percyclebilev, I. M. - Min the discussional florr you anthwar words on the home, Trudy Astrolds, rec. sed. in-te, Vel. IX, 10%0, p. 131-35.

Si: U-30%2, 13 March 53, (Letenis Whurnel for th Statey, No. 0, 10%0.

Finew portrow, T. H. - "In the emotion of molecular of the constant, finish Assert, gon. med. in-in, Vol. IX, 1040, s. 034-37.

CO: U-3040, 11 March 53, (Lotopis 'Zhurnal 'nyth Statey, Mr. 0, 1049).

FIREWINGSTON, T. T.

Perevolehibov, J. N. - "Chilbe restivity of the sime buring explaitive received",
Truly Astraids, son. med. in-in, Vol. IX, 1021, p. 30-M.

So: U-2022, 11 March 53, (Lettric 'Zhurnal 'mith States, N. 1, 1027).

PEREVODENTION, I. N.

26001 PEREVODENTION, I. N. O Dermatozakh, Svyazannykh S Voyennoy Travmoy V SB:
Problemy Vosstanovit. Lecheniya Invalidov Otechestv. Voyny. Astrakhan',
19h8, S. 270-81.

S0: Letopis' Zhurnal Statey, No. 30, 19h8, Moscow

PEREVODCHIKOV, I.N.; TER-ZAKHAROVA, R.I.; ANDREYEVA, F.I.; TARSHINA, Ye.I.

Syphilis treated by reinforced therapy. Vest.vener. no.2:15-17 Mr-Ap '50. (CIML 19:3)

1. Of the Skin-Venereological Clinic, Astrakhan' Medical Institute (Head -- Prof. N.N.Perevodchikov).

PERBUODCHIKOV, I.N.

Development of undifferentiated forms of leprosy. Vest. vener., Moskva no. 5:29-31 Sept-Oct 1952. (CLML 23:3)

1. Professor. 2. Of the All-Union Scientific-Research Institute for Leprosy and of the Skin Clinic of Astrakhan' Medical Institute.

KOSCHAPKINA, L.I., kandidat meditsinskikh nauk, zaveduyushchiy laboratoriyey; ALANDAROV, I.H.; PEHEVODCHIKOV, I.H., professor, direktor.

Condition of nerve fibers in experimental lepromas. Vest.ven. i dern. no.3:14-17 My-Je '53. (MLRA 6:7)

1. Patomorfologicheskaya laboratoriya Vsesoyuznogo instituta po izucheniyu lepry. (Leprosy) (Nerves)

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USSR / General Problems of Pathology. Experimental Treatment. U-5

Abs Jour : Ref Zhur - Bill., No 10, 1958, No 46916

Author : Perevodchikov, I. N.

Inst : Astrokhan' Institute of Medicine.

Title : Some Problems of skin Cancer and of Precancerous Skin

Conditions.

Orig Pub : V sb. Tr. Astrakhanskogo med. in-ta, 1956, 12, No 2,

365-371

Abstract : Data on 456 patients with cancer of the skin are given who

have come to the Astrakhan' dermatology clinic during a 16 year period. A considerable number of epitheliomas developed following the appearance of atrophic skin areas and the occurrence of hyperkeratosis phenomena. In some of the cases, long fasting inflammatory processes (such as lupus cheilitis) preceded the appearance of skin cancer and of lower lip cancer. The author is of the opinion

Card 1/2

43

PEREVODCHIKOV, I.B., red.; SHUBIN, V.P., kand.med.nauk

[Leprosy; diagnosis and prophylaxis; a manual for physicians]
Raspownevanie i profilaktika lepry; rukovodstvo dlia vrachei.

Moskva, Medgiz, 1957. 230 p. (MIRA 11:1)

(IMPROSY)

PEREVODCHIKOVA, L.M., kand.med.nauk

Use of gangleron in the compound treatment of peptic ulcer. Kaz.med.zhur.no.3:69-71 My-Je 163. (MIRA 16:9)

1. Kafedra fakul tetskoy terapii (zav. - dotsent S.V. Bazanova) Bashkirskogo meditsinskogo instituta.
(GANGLERON-THERAPEUTIC USE)
(PEPTIC ULCER)

**建筑的 医克里克斯氏 医克里克氏性 医克里克氏性 医克里克氏征** 

100年的大利亚大学的扩展生命经验的企业的企业工程的企业工程的 计论识别计划 化异合物

BLOKHIN, N.N.; KUDIMOVA, E.G.; PEREVODCHIKOVA, N.I.; SHABAD, L.M.; VASILIEV, Y.M.

A short outline of the oncological work in the U.S.S.R. Neoplasma 9 no.3:355-368 62.

1. Institute of Experimental and Clinical Oncology of the Academy of Medical Sciences of U.S.S.R., Moscow.
(NEOPLASMS)

经的经济等的共和的政治政治的经济的人的联系的政治的政治政治的 医动脉丛 经工作工程

PEREVOSHCHIKOV, Konstantin Alekseyevich; CHERNENKO, K.A., otv. red.; TISHINA, Z.V., tekhn. red.

[Under the sun of India, a land which is fantastic and ordinary]
Pod solntsem Indii, strany skazochnoi i obyknovennoi. Moskva,
Gos.izd-vo detskoi lit-ry M-va prosv. RSFSR, 1961. 158 p.
(MIRA 15:2)

(India-Social conditions)

因为是他们是在国际大学的人类的政策和自己的自己的政策的特别和自己的任何

KORRIN, V.U.; PEREVOZCHIKOV, S.N.; SHAPIRO, A.S., starshiy master

Noncontact back current relay for multiple-unit rail cars. Elek. i tepl. tiaga no.6:21 Je '62. (MDRA 15:7)

1. Rukovoditeli grupp nauchno-issledovatel'skogo etdela Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta (for Kobrin, Perevozehikov). 2. TSekh tekushchego remonta depo Leningrad-Finlyandskiy (for Shapiro).

(Railroad motorcars)
(Railroads—Electric equipment)
(Electric relays)

NEKRASOV, V.I., inzh.; CHERKASOV, Ye.B., inzh.; PEREVOZCHIKOV, S.E., inzh.

ET-16 narrow-gauge diesel-electric locomotive using singlephase current of industrial frequency. Sbor.LIZHT no.159:92105 '58. (MIRA 12:2)

(Diesel locomotives)

SHCHUKAREV, S.A.; SEMENOV, G.A.; RAT'KOVSKIY, I.A.; PEREVOSHCHIKOV, V.A.

Determination of the saturated vapor pressure of indium oxide. Zhur.ob.khim. 31 no.7:2090-2092 61. (MIRA 14:7)

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova. (Indium oxide) (Vapor pressure)

5/079/61/031/007/002/008 211120 D229/D305

5 2 200

Shchukarev, S.A., Semenov, G.A., Rat'kovskiy, I.A.,

and Perevoshchikov, V.A. AUTHORS:

Determination of saturated vapor pressures of indium

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 7, 1961, TITLE:

TEXT: This is a report on determining very low saturated vapor TEXT: This is a report on determining very low saturated vapor pressure of indium oxide by the flow method using a radioactive pressure of indium oxide by the flow method using a radioactive pressure of indium oxide by the flow method using a radioactive pressure of indium oxide by the flow method using a radioactive pressure of indium oxide by the from 12900 to 14900. It tracer - Inlia in the range of temperature from 12900 to 14900. It tracer - Inlia in the range of temperature up to 12000 did not lead to a change in weight of the temperature up to 12000 did not lead to a change in ulya. 124. AN Alrgizhk DDDR, 1970, that the ignition of in203 at the temperature up to 12000 did not lead to a change in weight of indian oxide who attempt to measure the vener processor of Incoming and indian oxide who attempt to measure the vener processor of Incoming and Indian oxide who attempt to measure the vener processor of Incoming and Indian oxide who attempt to measure the vener processor of Incoming and Indian oxide who attempt to measure the vener processor of Incoming and Indian oxide who attempt to measure the vener processor of Incoming and Indian oxide who attempt to measure the vener processor of Incoming and Incomin indium oxide. The attempt to measure the vapor pressure of In203 at 10600 using the flow method was unsuccessful. In view of the above it was decided to determine vapor pressure of In203 by a

Card 1/4

2/1/120 S/079/61/031/007/002/008 D229/D305

Determination of saturated ...

flow method at much higher temperatures (1290°-1490°) with air as a carrier gas suppressing the dissociation of indium oxide. Air was found to be satisfactory, as it is proved (Ref. 1: Op.cit.) that indium nitride if formed, burned up in the air, forming oxide. It was assumed that indium oxide vapor is monomeric. After describing the indium oxide preparation method, the authors note that its radiochemical purity was checked by a γ-spectrometer (illustrated in this article). The rate of flow of carrier gas at its saturation with In203 vapor was determined for three temperatures: 1290°, 1445° and 1490°C. The values of molar concentration at the flow rates less than 4 ml/min were not taken into account when extrapolating for zero rate, as they showed discrepancies. The flow rate of 5-7 ml/min was chosen. The values of indium oxide molar concentration obtained by extrapolation for the zero rate and measured at the low rate of 5-7 ml/min varied roughly by 8 %. Saturated vapor pressure of indium oxide was measured in the temperature range of 1290° - 1490°C and the dependence of the saturated vapor pressure of indium oxide on temperature is shown in Fig. 2. Results were taken from Card 2/4

24420 s/079/61/031/007/002/008 D229/D305

Determination of saturated ...

three independent experiments with preparations of different total activity. The total determination error of indium oxide vapor pressure consists of: Determination error of total activity of preparation(± 1.2%), error in measuring activity (± 6%), determination error of preparation temperature (± 0.5 %), error in measuring volume of passed carrier gas (± 2 %). The determination error of indium oxide vapor pressure calculated on the basis of these values amounts to 6 %. Enthalpy of sublimation of indium oxide was found to be 118 ± 2Kcal/mol. Entropy of the process of sublimation of In203 was calculated taking the heat capacity values of indium oxide in the temperature range of 00-100°C (Ref. 1: Op.cit.), as no value of Cp of perature range of 00-100°C (Ref. 1: Op.cit.) as no value of Cp of perature range of 00-100°C (Ref. 1: Op.cit.) as no value of Cp of perature range of 00-100°C (Ref. 1: Op.cit.) as no value of Cp of Operature range of Operature could be found in technical literature. Calculated So 298 amounts to 42 ± 1Kca /mol. degree. There are 2 figures, 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova (Leningrad State University imeni A.A. Zhdanov)

June 21, 1960 SUBMITTED:

Card 3/4

0

ACC NR: AT7003993

SOURCE TODE: UR/0000/66/000/000/0048/0055

AUTHOR: Perevodchikov, V. I.; Pokras, A. N.; Skibityanskiy, D. A.

ORG: none

TITLE: Electron gun with a current of 40-50 amp intended for pulsed linear accelerator

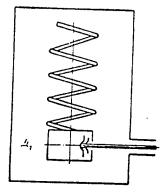
SOURCE: Mezhvuzovskaya konferentsiya po elektronnym uskoritelyam. 5th, Tomsk, 1964. Elektronnyye uskoriteli (Electron accelerators); trudy konferentsii. Moscow, Atomizdat, 1966, 48-55

TOPIC TAGS: linear accelerator, electron gun

ABSTRACT: The design, construction, and testing of a special electron gun intended for operation in the linear accelerator of the Institute of Nuclear Physics, SO AN SSSR, are briefly reported. An accelerating voltage of 1.5 My is developed in a cavity resonator containing the gun chamber suspended from a helix (see figure). No structural insulating member between the first and second anodes is provided. Current density at a spherical cathode is 20 amp/cm<sup>2</sup>. A focusing

Card 1/2

ACC NR: AT7003993



electrode is placed close to the cathode; the first anode is conical, and the second is a flat diaphragm. A sketch shows general construction of the axisymmetrical gun. The cathode is heated by the electron beam (180-360 w, 600 v). Turn-on pulse voltage is applied to the first anode whose breakdown voltage is about 45 kv. During the tests, the accelerating positive pulses were controlled within 0-22 kv. With a heater voltage within 5.5-7 v and a heater current, 25.5-27.5 amp, the cathode temperature was within 1550-1700C. With an electron-bombardment power of 360 w, the gun current was 42 amp. During the first two hours of gun operation, the emission current fell off by 25% and then remained constant for several dozen hrs. Orig. art. has: 7 figures and 1 table.

SUB CODE: 09 / SUBM DATE: 06Mar66 / ORIG REF: 001

Card 2/2

s/109/60/005/009/014/026 E140/E455

Perevodchikov, V.I. and Kuznetsov, Ye.P.

The Possibility of Using Germanium Sulphide AUTHORS: TITLE:

Photoresistances as Television Camera Tube Targets

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol.5, No.9,

The use of GeS photoresistances in a vidicon-type television camera tube was proposed by Cashman in 1956. presents the results of an experimental study of such photo-An alloy of spectrally-pure germanium with sulphur was evaporated on to a glass base. Approximately stoichiometric proportions were used, where the GeS was separated from the germanium disulphide GeS2 by sublimation, as well as from oxides Layers were evaporated in vacuum on to and non-reacting residues. Layers were evaporated in vacuum on glass plates with parallel electrodes 30 mm long with 0.5 mm gap. Resistivity and sensitivity of the photolayer were studied; as functions of the base temperature, the rate of evaporation, the residual gas pressure and the thermal treatment. that the sensitivity and resistivity were not critical, subsequent heat treatment permitting compensation for variation in base Card 1/3

### S/109/60/005/009/014/026 B140/B455

The Possibility of Using Germanium Sulphide Photoresistances as Television Camera Tube Targets

Residual gas pressures up to temperature during evaporation. 10-3 mm Hg had practically no effect on the resistivity or the sensitivity. The layers obtained were fairly sensitive, with maximum sensitivity at 590 mp, in individual layers shifting down as far as 560 mp. Typical characteristics are shown in Fig. 3. Since appreciable absorption occurs at wavelengths below  $600~\text{mm}_{\text{p}}$ the sensitivity of the photolayer depends appreciably on its The temperature characteristics (Fig. 4) indicate the thickness. The width of presence of intrinsic and impurity conductivities. forbidden zone obtained from the curve is 1.7 to 1.75 eV, the dissociation work of the impurity levels 0.9 to 0.95 eV. Although the layers were stable up to high temperatures, sensivity decreased by a factor of 3 between 20 and 60°C, and by a factor of 8 up to 100°C. Vidicon samples were produced approximating to the Soviet type LI-18. A resolution of 500 to 550 lines was obtained. The target had appreciable inertia. With a motion of the test chart across the target at 2 to 2.5 mm/sec Card 2/3

YUMATOV, K.A.: PEREVOICH IKOV, V.I.

New photoconductive layers for television pickup tubes with a photoconductive target. Radiotekh. i elektron. 3 no. 3:415-420 Mr '58.

(Television--Transmitters and transmission) (MIRA 11:4)

(Photoconductivity)

PEREVODCHIKOV, V.I.; KUZNETSOV, Ye.P.

Possibilities of using GeS photoresistances as targets in television camera tubes. Radiotekh. 1 elektron. 5 no.9:1478-1483 S '60.

(MIRA 13:9)

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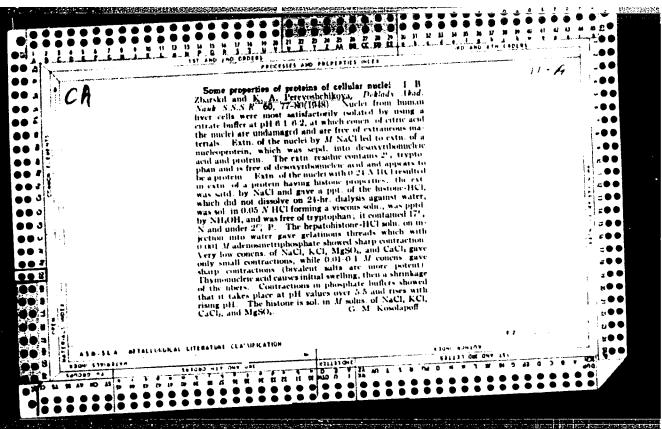
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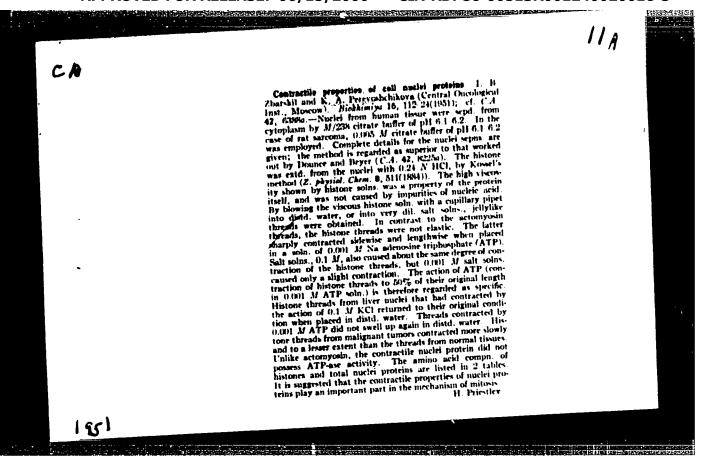
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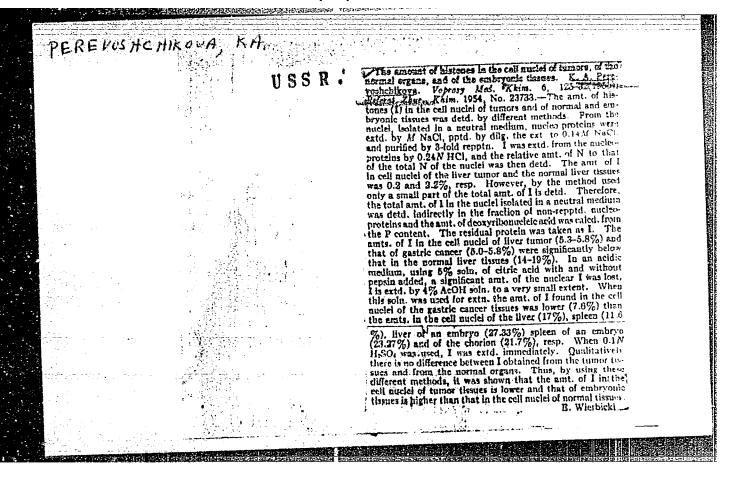


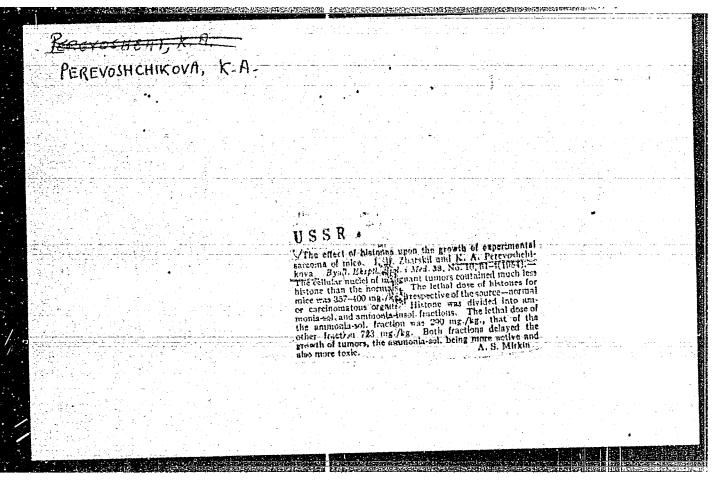


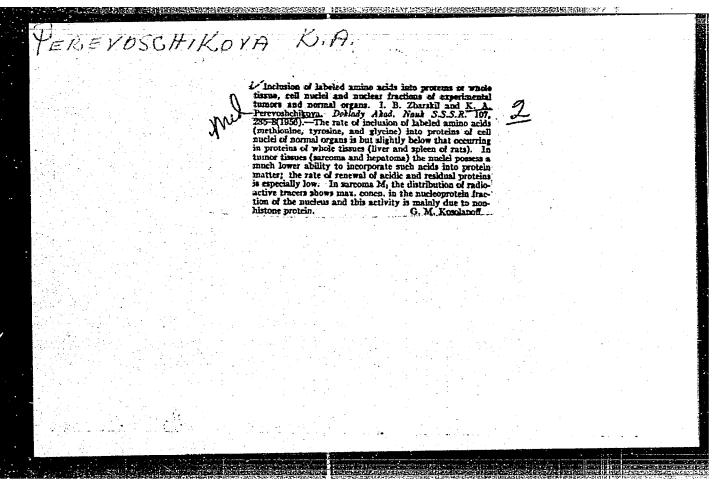
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